*

1530/MR230/MR235





model 1530/MR230/MR235

Stereophonic Receiver



MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ Company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If, for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

ORDERING PARTS

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from our National Parts Depot located at the following address:

SUPERSCOPE NATIONAL PARTS DEPARTMENT 20525 Nordhoff Street Chatsworth, California 91311 Phone: 1-800-423-5108 1-213-998-9333

.The following information must be supplied to eliminate delays in processing your order:

- 1. Complete address.
- 2. Complete part numbers.
- 3. Complete description of parts.
- 4. Model number for which part is required (indicate MARANTZ).
- 5. Account number (for account customers only).

Direct consumers will be provided with the current retail price quotation on available parts in order to advise them of the cost of the parts and shipping.

OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

AUSTRALIA	JAPAN
Superscope (Australasia) Pty., Ltd.	Marantz Japan, Inc.
32 Cross Street (P.O. Box 604)	3622 Kamitsuruma
Brookvale 2100 N.S.W.	Sagamihara Shi
Australia	Kanagawa, Japan
	Superscope (Australasia) Pty., Ltd. 32 Cross Street (P.O. Box 604) Brookvale 2100 N.S.W.

EUROPE

Marantz France Rue Louis Armand 9	Marantz Audio U.K. Ltd. London Road, 203	Superscope GmbH Max-Planck-Strasse 22
92600 Asnieres	Staines	D-6072 Dreieich 1
Hauts-de-Seine	Middlesex	West Germany
France	England	
	Rue Louis Armand 9 92600 Asnieres Hauts-de-Seine	Rue Louis Armand 9 London Road, 203 92600 Asnieres Staines Hauts-de-Seine Middlesex

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.



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MODEL 1530/MR230/MR235 STEREOPHONIC RECEIVER

INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model 1530/MR230/MR235 Stereophonic Receiver.

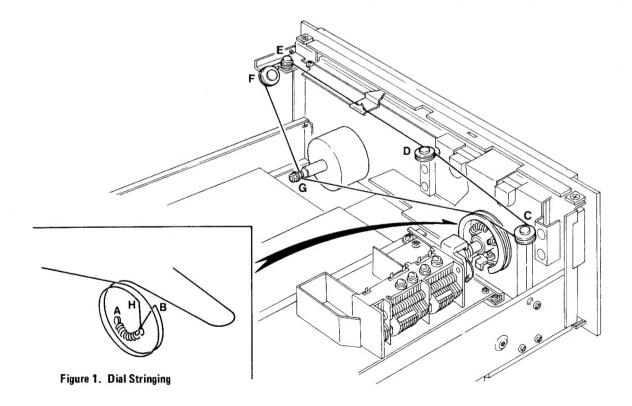
Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operation of the receiver.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

1. P.W. BOARDS

As can be seen from the circuit diagram, the chassis of Model 1530/MR230/MR235 consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

2.	Tuner					
	Power Supply	mounted	on	P.W.	Board	P700
4.	Antenna Input	mounted	on	P.W.	Board	PC00
5.	Tone Amp	mounted	on	P.W.	Board	PE00
6.	Power Transistor	mounted	on	P.W.	Board	PN01
7.	Fuse	mounted	on	P.W.	Board	PP01
8.	Filter & Switch	mounted	on	P.W.	Board	PS00
9.	LED	mounted	on	P.W.	Board	PY01



2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model 1530/MR230/MR235 Receiver.

Item	Manufacturer and Model No.	Use	
AM Signal Generator		Signal source for AM alignment	
Test Loop		Use with AM Signal Generator	
FM Signal Generator MPX Signal Generator	Sound Technology Model 1000A	Signal source for FM alignment Stereo separation alignment and trouble shooting	
Distortion Analyzer Audio Oscillator AC VTVM	Sound Technology Model 1700A	Distortion measurements Sinewave and squarewave signal source Voltage measurements (AC)	
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting and ASO alignment	
Frequency Counter	Fluke Model 1900A	MPX Oscillator adjustment (VCO)	
Circuit Tester		Trouble shooting	
DC VTVM	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)	
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier	
AC Ammeter	Commercial Grade (1-10A)	Monitors amplifier output under short circuit condition	
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier	
Variable Autotransformer	Superior Electronic Co., Powerstat Model 116B-10A	Adjusts level of primary power to amplifier	
Shorting Plug	Use phono plug with 600-ohm across center pin and shell	Shorts amplifier input to eliminate noise pickup	
Output Load (8 ohms, ± 0.5%, 100W)	Commercial Grade	Provides 8-ohm load for amplifier output termination	
Output Load (4 ohms, ± 0.5%, 100W)	Commercial Grade	Provides 4-ohm load for amplifier output termination	

FTZ REGULATION

Instruction for the use in the range other than specified in FTZ codes.

Achtung für die Leute, die in dem Gebiet wohnen, wo die FTZ-Bestimmungen vorherrschend sind.

Sollte das Gerät auch für Frequenzen auszerhalb des in den FTZ-Bestimmungen angegebenen Bereiches empfangebereit sein, bitten wir, den Bereich durch Nachstellen des Kernes in der Oszillatorspule (in der Abbildung mit "FTZ" gekennzeichnet) so zu korrigieren, dass er den Bestimmungen entspricht.



3. ALIGNMENT PROCEDURES

3.1 FM ALIGNMENT PROCEDURES

(Selector switch in the "FM" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:	
		FN	IF ALIGNMENT			
1	Sweep generator to point B through	10.7 MHz market at	Oscilloscope to point ©	Quiet point on	L104 for maximum and symmetric response.	
2	5pF capacitor	10.6, 10.7 and 10.8 MHz	Oscilloscope to point (D)	band.	L201 for straight and symmetric "S" curve response.	
3			Repeat steps 1 and 2	2.		
	1 .	FN	RF ALIGNMENT			
1		87.4 MHz		87.4 MHz with tuning gang closed.	L103 for maximum output.	
2	RF generator to FM antenna terminals (A) through matching network	ntenna nals (A) through 100 MHz		109 MHz with tuning gang open.	C119 for maximum output.	
3	(300 ohms, balanced) Maintain RF level below limit.)	90 MHz	channel output (W002)	90 MHz	L101, L102 for maximum output.	
4		106 MHz		106 MHz	Ant. RF trimmer for maximum output.	
5		ob an over the contract of the	Repeat steps 1 to 4.			
6	Check over	all response curve an	d repeat above steps as ne	cessary to obtain maximu	m sensitivity.	
7	No connection	No signal	DC VTVM 1-volt range to ①		L201 primary core (bottom) for "0" voltag reading.	
8	RF generator 1 mV output to FM antenna	00 MU-	Distortion meter to	00.444	L201 secondary core (upper) for minimum distortion.	
9	terminals (A) through matching network (300 ohms, balanced)	98 MHz	_	98 MHz	R232 so that signal strength meter M00 1 may read 85%.	
	.L	MUTING	CIRCUIT ALIGNME	NT		
1	RF generator 12.5µV output to FM antenna terminals (A) through matching network (300 ohms, balanced)	98 MHz	VTVM to R or L channel output (W002)	98 MHz	R233 for 12.5µV threshold level. (During the adjustment turn the muting pushswitch "ON").	

^{*} A dummy resistor of 47 kohms must be connected across the tape output terminals before alignment.

3.2 MULTIPLEX ALIGNMENT PROCEDURES

(Selector switch in the "FM" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
1	balanced), with 1mV FM stereo simulator RF level and 100% modulation (pilot 9%)	No modulation	Frequency counter to point (E) (J140)		R326 so that frequence counter may precisely read 19 kHz.
2		Stereo, left (1,000 Hz)	VTVM to right channel output (W002, White)	98 MHz	R316 for maximum
3		Stereo, right (1,000 Hz)	VTVM to left channel output terminal (H) (J123) (W002, Red)		output and same separation in both channels.
4			Repeat steps 2 and 3.		

3.3 AM ALIGNMENT PROCEDURES

(Selector switch in the "AM" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:	
		A	M IF ALIGNMENT			
1	No connection	No signal	_	_	R228 to that signal strength meter M001 may read 0.	
2	Sweep generator to point (F)	455 kHz marker			L154 for maximum and symmetric response.	
		Al	M RF ALIGNMENT			
1		515 kHz		515 kHz with tuning gang closed.	L153 for maximum output.	
2	RF generator to	1,650 kHz	VTVM to L or	1,650 kHz with tuning gang open.	OSC, trimmer for maximum output.	
3	AM antenna terminals through IHF dummy	600 kHz	R channel output (W002)	600 kHz	L001 for maximum output.	
4		1,400 kHz		1,400 kHz	Ant. trimmer for maximum output.	
5		Repeat steps 1	to 4 as necessary to obtain	n maximum sensitivity.		

3.4 AUDIO ALIGNMENT PROCEDURES

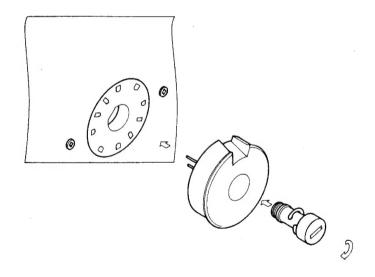
(Selector switch in the "AUX" position)

	Signal Source Connection	Signal	Indicator Connection	Adjustment
Distortion meter used	AF oscillator to AUX jack	20 kHz	Distortion meter to SPK OUT terminals with 4Ω load.	Wait 2 min. after power has been on. Adjust R717 and R718 until distortion for 0.25W output is minimum. CAUTION: After adjustment, disconnect input signal, and make certain that current flowing from R741 to R744 is 10 to 30 mA.
Voltmeter used	_	-	DC voltmeter in 100 mV or 50 mV range to R741 (R743) and R742 (R744).	Adjust R717 and R718 until current is 10 mA.

4. VOLTAGE CONVERSION

The Model 1530/MR230/MR235 is equipped with a universal power transformer that may be adjusted to operate at 110 V, 120 V, 220 V, or 240 V AC at 50 to 60 Hz. To convert the unit to a different power source voltage, reposition conversion plug at shown in Figure 2.

CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.



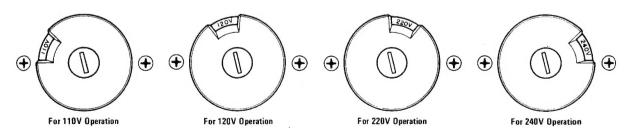
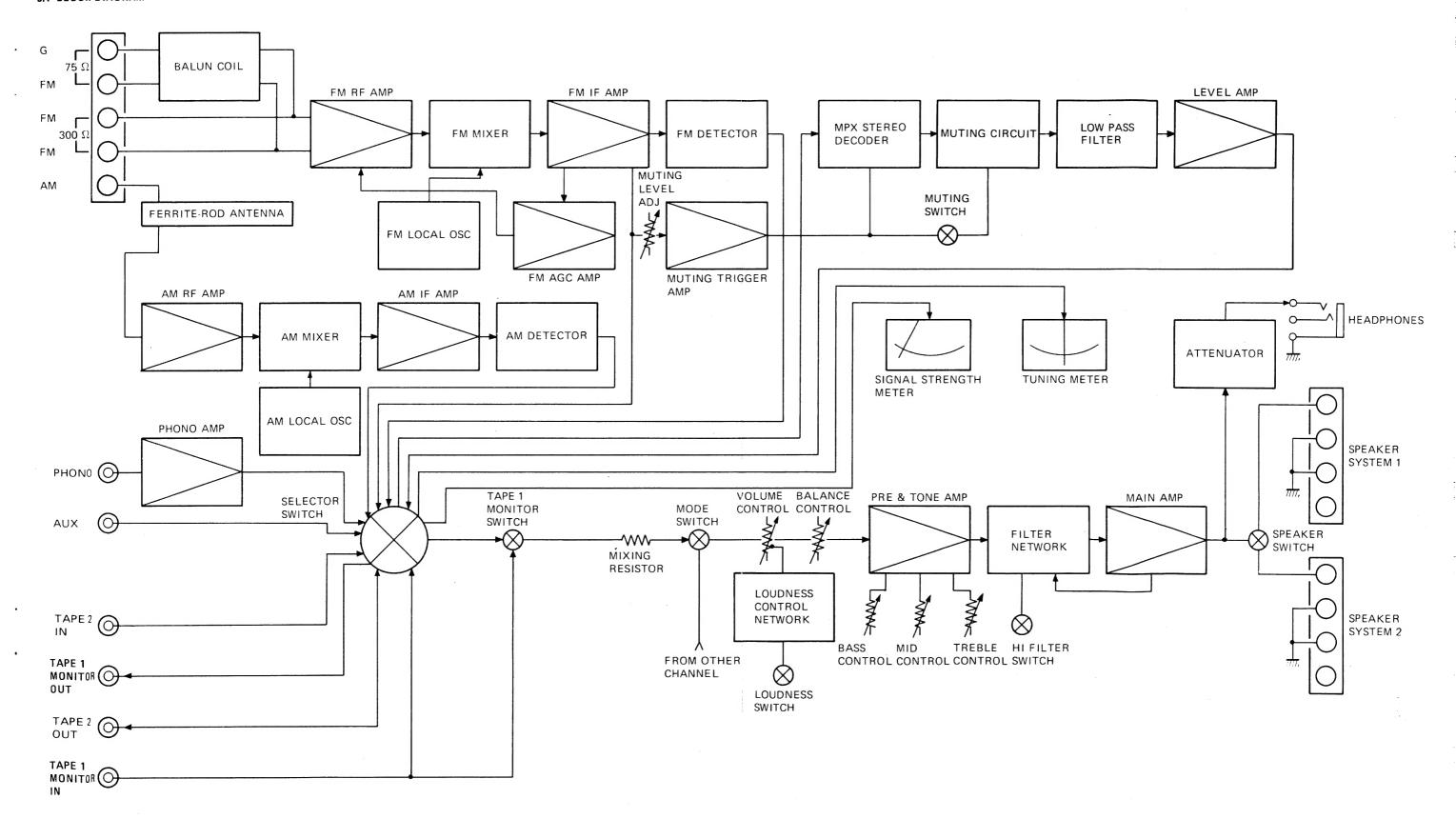


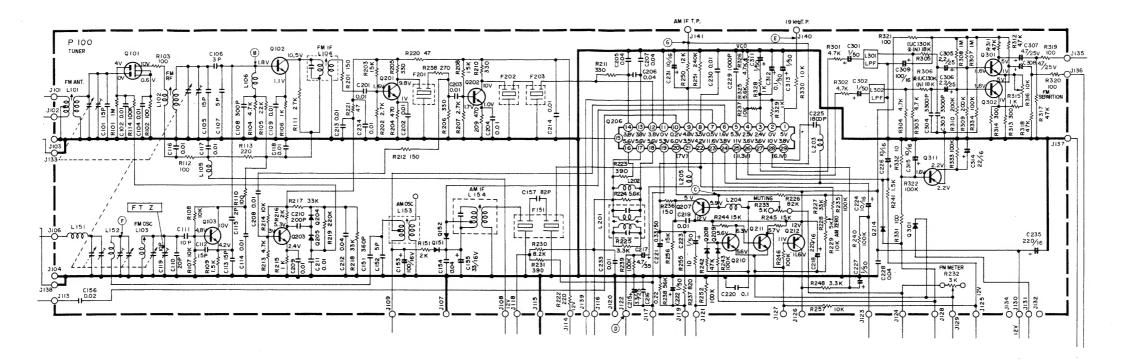
Figure 2. Voltage Conversion Chart

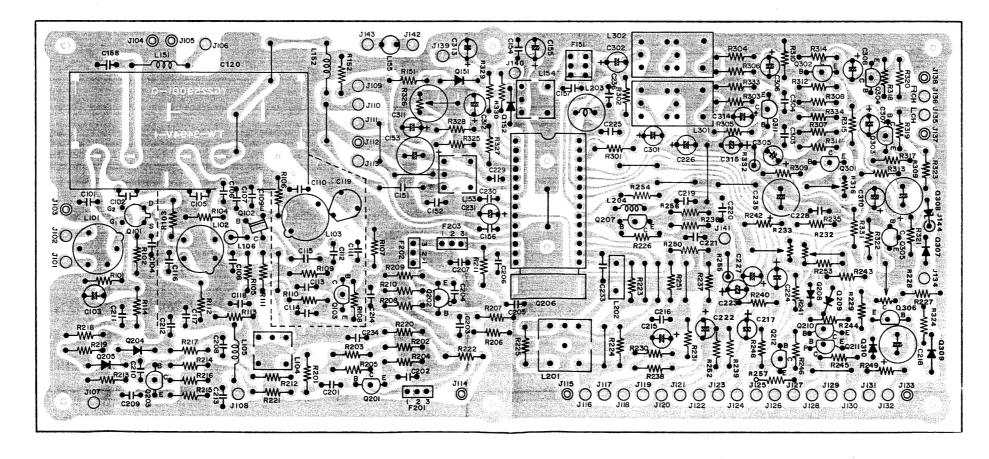
5. DIAGRAMS

5.1 BLOCK DIAGRAM

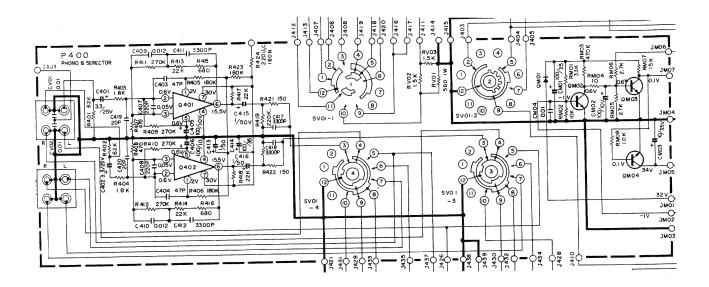


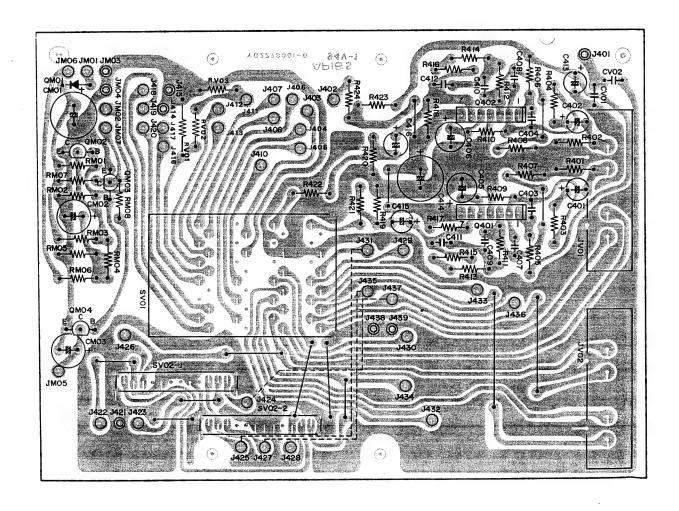
5.2 TUNER BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P100



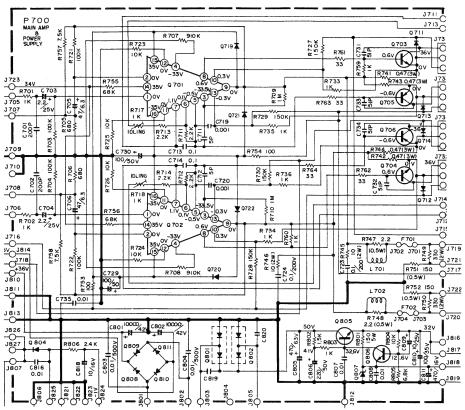


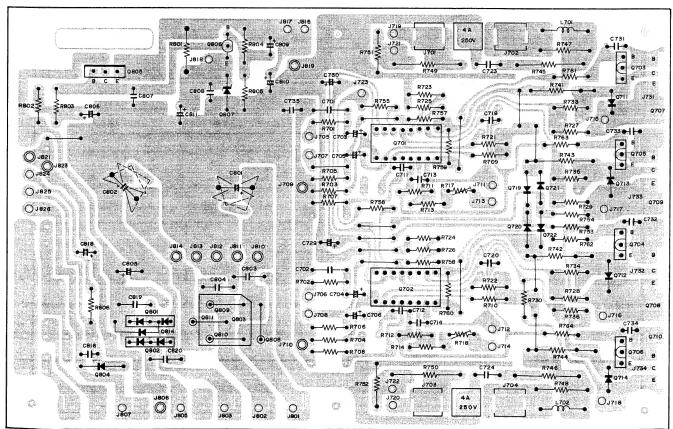
5.3 PHONO AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P400



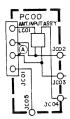


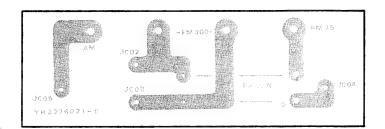
5.4 MAIN AMP & POWER SUPPLY BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P700



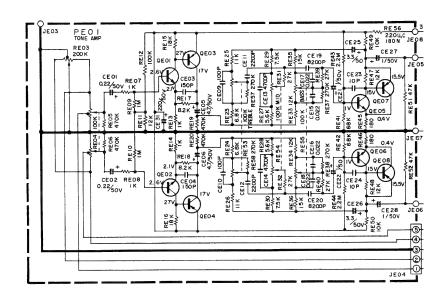


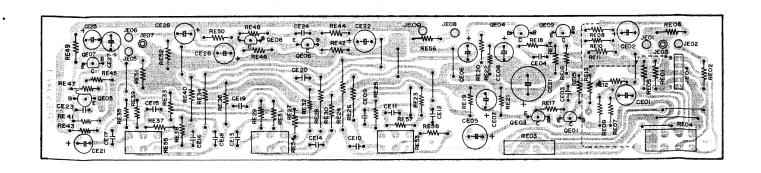
5.5 ANTENNA INPUT BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PC00





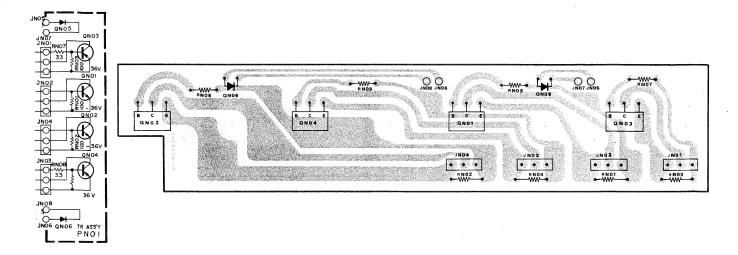
5.6 TONE AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PEOO



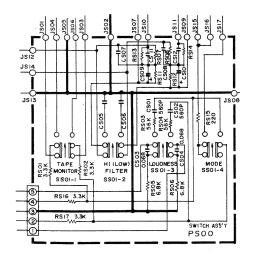


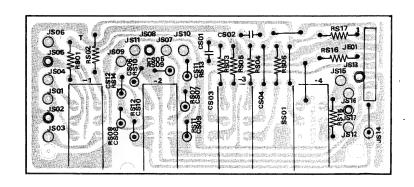
machie and Z

5.7 POWER TRANSISTOR BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PN01



5.8 FILTER & SWITCH BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PS00





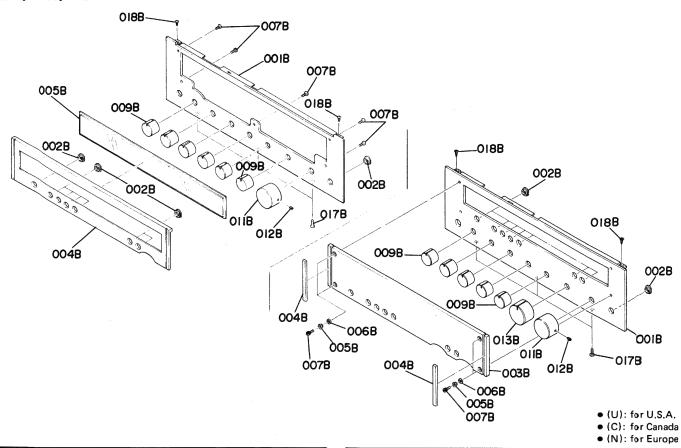
5.9 LED BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PY01





6. EXPLODED VIEWS AND PARTS LIST

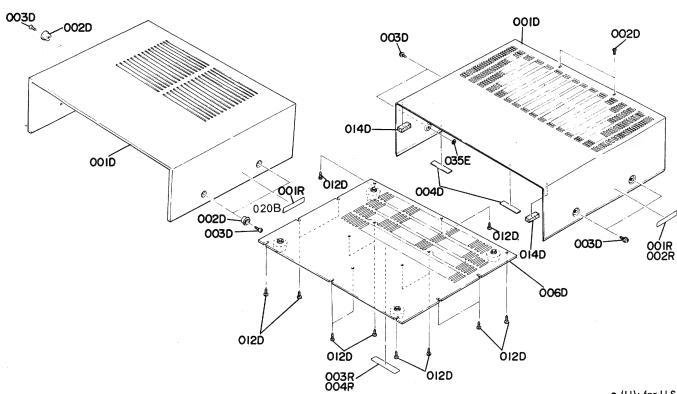
6.1 [C01-99] FRONT PANEL



REF.	T (ı'T	<u> </u>	<u> </u>	
DESIG.	_	UCN		PART NO.	DESCRIPTION
	U	-	IN		
	1				
		l			M1530, ONLY
Α	1	1		2277063400	Front Panel Assembly
A1			1	2277063410	Front Panel Assembly
001B	1	1	1	2278063012	Escutcheon, Main
002B	8	8	8	2978259012	Bush
004B	1	1		2277063122	Escutcheon, Sub
004B	ĺ		1	2277063220	Escutcheon, Sub
005B	1	1	1	2211158110	Window
007B	5	5	5	51100305A9	B.H.M. Screw B3 x 5
					MR230, ONLY
Α			-1	2469063400	Front Panel Assembly
001B	1		1	2469063012	Escutcheon
002B		1	8	2978259012	Bushing
003B		l	1	2469158012	Window
004B		İ	2	2276067010	Сар
005B		ĺ	4	2470055010	Collar
006B			4	4214107010	Sheet
007B			4	52730308S9	H.S. Head Bolt H3 x 8
					MR235, ONLY
Α	1			2277063420	Front Panel Assembly
001B	1			2278063012	Escutcheon Main
002B	8			2978259012	Bushing
004B	1			2277063130	Escutcheon, Sub
005B	1			2211158110	Window
007B	5			51100305A9	B.H.M. Screw B3 x 5
			.		

REF.		ľΤ		PART NO. DESCRIPTION	
DESIG.	υ	С	N	PARTINO.	DESCRIPTION
009B 009B 011B 012B 013B 017B 018B	6 1 1 3 2	6 1 1 3 2	1	2276154010 2276154010 2279154040 51690306Q9 2276154030 51280308U0 51340306B0	Knob (M1530, ONLY) Knob (MR230, ONLY) Knob, Tuning Socket Screw, HP 3×6 Knob, Volume (MR230, ONLY) B.H. Tapped Screw B3 x 8 F.H. Tapped Screw B3 x 6
					M1530 (U)(C)(N) MR230 (N), ONLY MR235 (U), ONLY

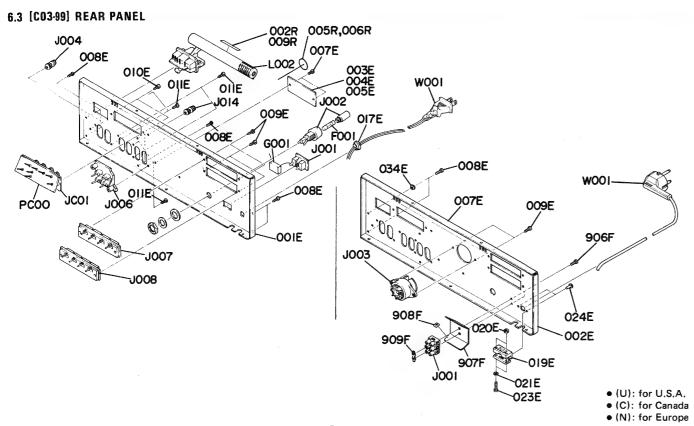
6.2 [C02-99] LID (TOP COVER)



	•	(U):	tor	U.S.A.
,	•	(C):	for	Canada
	•	(N):	for	Europe

REF.	(Ω'T	Υ		B-500-10-10-1
DESIG.	υ	С	N	PART NO.	DESCRIPTION
001D 002D 003D 004D 014D	1 2 4 2 2	1 2 4 2 2	1 2 4 2 2		M1530, ONLY Lid, Metal Case B.H. Tapped Screw B3 x 6 F. Washer Screw F4 x 8 Spacer Spacer
001D 002D 003D 020B	1 4 4 1		1 4 4	2278064012 3906259010 51280412U0 2818861010	MR230(N), MR235 (U) Case, Wood Bushing B.H. Tapped Screw B4 x 12 Label

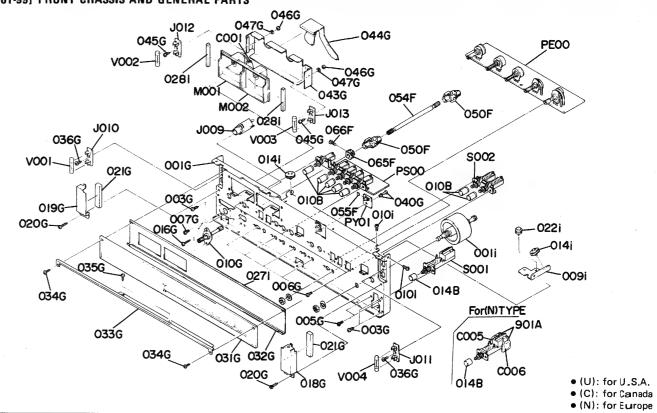
REF.	(ľΥ	Υ	PART NO.	DESCRIPTION
DESIG.	U	С	Z	PART NO.	DESCRIPTION
006D 012D	1 15	1 15		2278257503 51280410U0	Lid, Bottom B.H. Tapped Screw B4 x 10
001R 002R 003R 004R 035E	1	1	1	2932861012 2911861143 2578861010 2911861112 54050400R0	Label Label Label Label T.L. Washer OR (M1530, ONLY)
					M1530 (U)(C)(N) MR230 (N), ONLY MR235 (U), ONLY



REF.	(Σ'T`	Υ	PART NO.	DESCRIPTION	
DESIG.	U	С	N	PARTINO.	DESCRIPTION	
001E	1	1		2277160212	Bracket, Rear Panel	
002E	ľ		1	2469160224	Bracket, Rear Panel	
003E	1			2277265010	Indicator	
003E	1			2277265040	Indicator (MR-235 ONLY)
004E		1		2277265020	Indicator	
005E			1	2277265030	Indicator (M1530, ONLY	
005E			1	2469265010	Indicator (MR230, ONLY	
007E	2	2	2	51760306B0	OS. Tapped Screw 3 x	
008E	6	6	6	51280308U0	B.H. Tapped Screw B3	
009E	4	4	4	51280308U0	B.H. Tapped Screw B3 >	
010E	2	2	2	51280308U0	B,H, Tapped Screw B3 :	۲8
011E	6	6	6	51280308U0	B.H. Tapped Screw B3	8 ا
012E	١	ľ	2	51100308S9	B.H.M. Screw B3	
017E	1	1	-	1455259030	Bushing	
019E			1	2821259010	Bushing	
020E	1		2	53110303A9	Hexagon Nut	
021E	l		2	54050300R0	T.L. Washer OR	
023E	l		2	51060316A9	P.H.M. Screw P3 >	16 ا
024E	l		2	55060305S0	T.R. Rivet	
034E			1	54050300R0	T.L. Washer OR	
906F			2	51100316S9	B.H.M. Screw B3	κ 16
907F	1	٠	1	3953120030	Insulator	
908F	1		1	2882861020	Label	
909F	1		1	2970005010	Clamper	-
						İ
					M1530 (U)(C)(N)	
					MR230 (N), ONLY	
					MR235 (U), ONLY	

REF.	(TΈ	TY PART NO.		DESCRIPTION	
DESIG.	U	С	N	PARTINO.	DESCRIPTION	
002R			1	2506265062	Indicator	
005R	1		١'	9511101020	Label	
006R		1		2457861040	Label	
009R	1			2506265062	Indicator	
009R		1		2911861172	Indicator	
F001	1	1		E540E00040	5 5A 050V	
F001	'	١'	1	FS10500040 FS10125800	Fuse 5A 250V Fuse 1.25AT 250V	
G001	1		'	BF10400030	1,20,11	
G001	١,	1			Cap. Comp 0.1μF + 120Ω	
J001	1	1		BF10400050	Cap. Comp 0.1μF + 120Ω	
J001 J001	'	'	1	YJ04000560	Jack, AC Outlet	
J001 J002	1		'	YL09030010	Terminal (3P)	
	'	1		YJ08000120	Jack, Huse Holder	
J002 J002		'		YJ08000230	Jack, Huse Holder	
J002 J003			1	YJ08000220	Jack, Huse Holder	
3003			'	BY03110010	Plug, Voltage Selector	
J004	1	1	1	YL03010240	Terminal, Ground	
J006	1	1	1	YT02040140	Terminal, Tape 2	
J007	1	1	1	YT03040160	Terminal, Speaker	
J008	1	1	1	YT03040160	Terminal, Speaker	
J014	1	1	1	YL03010240	Terminal, Ant, Ground	
L002	1	1	1	LF11200620	Antenna Coil	
W001	1	1		YC02000150	A.C. Power Cord	
W001			1	YC01900030	A.C. Power Cord	
PC00	1	1	1	YH22760210	P.W. Board, Antenna	
, 000		1	1	ZZ22760210	P.W. Board, Antenna P.W. Board Assembly	
	'		.		1.11. Dodia Assembly	
JC01	1	1	1	YT01040182	Terminal	

6.4 [P01-99] FRONT CHASSIS AND GENERAL PARTS



REF.		T'£	Υ	PART NO.	DESCRIPTION	\1
DESIG.	U	С	N	PART NO.	DESCRIPTION	V
010B	7	7	7	2276154120	Knob	
014B	1	1	1	2276154040	Knob, Power	
050F	2	2	2	2258125510	Joint	
054F	1	1	1	2278112010	Shaft	
055F	1	1	1	2481118020	Spacer	
065F	1	1	1	2278114010	Stopper	
066F	1	1	1	51064019A9	P.H.M. Screw	
001G	1	1	1	2276160012	Deschar	
001G	4	4	4		Bracket	BO 0
005G	2	2	2	51280308B0	B.H. Tapped Screw	B3 x 8
006G	4	4	4	51100306A9	B.H.M. Screw	B3 x 6
007G	2	2	2	51100306A9 51100306A9	B.H.M. Screw	B3 x 6
010G	1	1	1	2276112510	B.H.M. Screw	B3 x 6
016G	2	2	2	51280314B0	Shaft	00 44
018G	1	1	1	2276053010	B.H. Tapped Screw	B3 x 14
019G	1	1	1	2276053010	Cover, Dial Lamp (R)	
020G	2	2	2	51280308B0	Cover, Dial Lamp (L)	
U2UG	-	2	2	5128030880	B.H. Tapped Screw	B3 x 8
021G	2	2	2	2276118010	Spacer	
031G	1	1	1	2276302014	Dial	
032G	1	1	1	2276063022	Escutcheon	
033G	1	1	1	2276005020	Clamper	
034G	2	2	2	51280310B0	B.H. Tapped Screw	B3 x 10
035G	2	2	2	51280308B0	B.H. Tapped Screw	B3 x 8
036G	2	2	2	51280308B0	B.H. Tapped Screw	B3 x 8
040G	1	1	1	2276005050	Clamper	
043G	1	1	1	2276063030	Escutcheon	
044G	1	1	1	2276005010	Clamper	

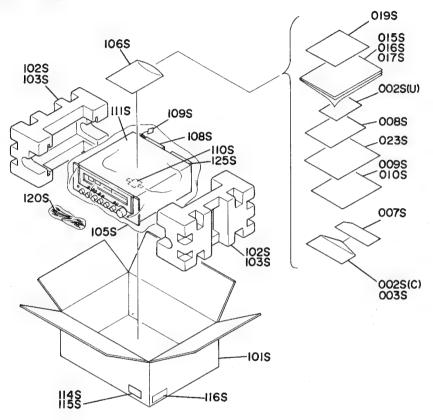
REF.	QTY		Υ	PART NO.	DESCRIPTION		
DESIG.	U	С	N	FARTINO.	DESCRIPTION		
045G	2	2	2	51100306A9	B.H.M, Screw B3 x 6		
046G	2	2 2	2	53110303A9	Hexagon Nut		
047G	2	2	2	54040302A0	Spring Washer		
001 i	1	1	1	2276273503	Flywheel		
009 i	1	1	1	2276160020	Bracket		
010 i	2	2		51100306A9	B.H.M. Screw B3 x 6		
014 i	2	2	_	2259262500	Pulley		
022 i	1	1	1	2259262520	Pulley		
027 i	1	1	1	2276107010	Sheet		
028 i	2	2	2	2276117010	Spacer		
0201	-	-	-	2270110030	Spacer		
901A			2	3926120010	Insulator		
C001	1	1	1	EA47700690	Elect Cap. 470µF 6.3V		
C005			1	DF17223800	Film Cap. 0.022µF ±20% 1 000V		
C006			1	DF17223800	Film Cap. 0.022µF ±20% 1 000V		
J009	1	1	1	YJ01001200	Jack, Headphone		
J010	1	1	1	YJ08000190	Jack		
J011	1	1	1	YJ08000190	Jack		
J012	1	1	1	YJ08000190	Jack		
J013	1	1	1	YJ08000190	Jack		
M001	1	1	1	IM11055230	D.C. Meter, Signal		
M002	1	1	1	IM11055220	D.C. Meter, Tuning		
S001	1	1		SP01010240	Push Switch, Power		
S001			1	SP02010330	Push Switch, Power		
S002	1	1	1	SP04020200	Push Switch, Speaker		
V001	1	1	1	IN10080420	Lamp 0.2A 8V		
V002	1	1	1	IN10080420	Lamp 0.2A 8V		
V003	1	1	1	IN10080420	Lamp 0.2A 8V		
V004	1	1	1	IN10080420	Lamp 0.2A 8V		

REF.	C	ľΤ	1	DARTNO	DESCRIPTIO	N.	REF.	Q	T	7
DESIG.	U	С	N	PART NO.	DESCRIPTIO	IN .	DESIG.	U	С	ı
016E 018E 019E 019E	1	1	1 2	2205861010 2471861010 2205861010 2225861010	Label Label Label Label	,	B 003i 004i 005i	1 1 1 2	1 1 1 2	
001F 002F 003F 004F 005F 006F 010F 011F 012F 013F	1 1 1 1 1 2 9 2	1 1 1 1 1 2 9 2	1 1 1 1 1 2 9 2	2277105013 2278105043 2278105030 2278105020 2276105040 2277105022 51280308B0 51280308B0 51280308B0 51280308B0	Chassis, Transformer Chassis, (R) Chassis, Main Chassis Chassis, Front Chassis, (L) B.H. Tapped Screw B.H. Tapped Screw B.H. Tapped Screw B.H. Tapped Screw B.H. Tapped Screw	B3 × 8 B3 × 8 B3 × 8 B3 × 8	002i 006i 007i 012i 013i 018i 001L 001L	1 1 1 2 1 1 1	1 1 1 1 2 1	
016F 017F 020F 022F 023F 035F 039F	1 1 4 1 3 6	1 1 4 1 3 6	1 1 4 1 3 6 1	2278160042 51280308B0 51490514A9 2277160010 51280308B0 51280308B0 2276160050	Bracket B.H. Tapped Screw L. Washer Screw Bracket B.H. Tapped Screw B.H. Tapped Screw Bracket	B3 x 8 L5 x 14 B3 x 8 B3 x 8	003L 004L 005L 007L 008L 009L 012L	1 1 2 4 4 1	1 1 2 4 4	
040F 041F 045F	2 6 1	2 6 1	2 6 1	51280308B0 51280308B0 2276160060	B.H. Tapped Screw B.H. Tapped Screw Bracket	B3 x 8 B3 x 8	013L 014L 017L 021L	5 2 1 2	5 2 1 2	
046F 047F 061F 064F 067F	2 4 1 3 1	2 4 1 3	2 4 1 3 1	51280308B0 51280308B0 62030049W0 2886005050 2887005012	B.H. Tapped Screw B.H. Tapped Screw Lug Clamper Clamper	B3 x 8 B3 x 8	201G 202G 203G	1 1 1	1 1	
068F 069F 070F 901F	1 1 2 1	1 1 2 1	1 2 1	51280308B0 62030049W0 2922005010 62030049W0	B.H. Tapped Screw Lug Clamper Lug	B3 x 8	L001 L001 L001 R001	1	1	
901F 902F 903F		1 1 2		2276160070 2276160080 51280308B0	Bracket Bracket B.H. Tapped Screw	B3 x 8	QN01 QN02 QN03 QN04	1 1 1	1 1 1	
901F 902F 903F 910F			1 2 2 1	2963160150 51280308B0 51280308B0 2218259020	Bracket B.H. Tapped Screw B.H. Tapped Screw Bushing	B3 x 8 B3 x 8	QN05 QN06	1	1	

6.5 [P02-99] ASSEMBLED P.W. BOARD AND OTHER PARTS (C)TYPE ONLY 902F	
/ ₉ _035F	
90 IF P70	00
035F	
O6IF PIOO 1 04IF	
002i 04IF PI00 04IF 069F	
PPOI PPOI	70
005i 90	SF
QNO5	
004i 070F	
0031 201G 201G 001L	
005i 007i 203G QNOI QNO4	OIL
DATE OF THE PROPERTY OF THE PR	
035F 013L 070F	
014L ® 035F	
005L 012L	
002L 020F	
040F 018E 014L 009L 009L	
039F 003L P700	
O)8E ROOI	
067F 90IF	
013i 008L 007L 017L	
045F	
010F 046F 012F	
OIOF OIBI OI3F OO7L OO7L	łL.
003F 016E 019E	
006F 004F	
903F 910F	
OILE OILE	
Ol6F OIIF	
902F 901F 022F	
001F 001F 012F	
OIIF	
OIOF	
(N) TYPE ONLY	
P400	
047F	

	-			_				- ((17): 10) Ediope
PTIO	N		REF. DESIG.		C C	Y	PART NO.	DESCRIPTION
		1	220.0.		٢	14		
		ŀ						
			В	1	1	1	2276159400	Drum Assembly
		ı	003i	1	1	1	2276159010	Drum
			004i	1	1	1	71101689L0	Spring
			005i	2	2	2	51064019A9	P.H.M. Screw
				١.	١.		7007400540	0
rmer			002i	1	1	1	72071605A0	String (150)
			006i	1	1	1	2259103010	Pointer
		1	007i	1	1	1	2259118010 2276160030	Spacer
		l	012i 013i	1 2	1 2	1 2	51100306A9	Bracket B.H.M. Screw B3 x 6
			013i 018i	1	1	1	2276262500	Pulley
rew	B3 x 8		0101	Ι'	١.	'	2270202000	
rew	B3 x 8	1	001L	1	1	1	2277267010	Heatsink
rew	B3 x 8		001L	ľ		1	2469267010	Heatsink, (M1530, ONLY)
rew	B3 x 8	l	002L	1	1	1	2276270240	Heatsink
,	20 0	l	003L	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
			004L	1	1	1	2276160090	Bracket
rew	B3 x 8	ı	005L	1	1	1	51280306B0	B.H. Tapped Screw B3 x 6
v	L5 x 14	ı	007L	2	2	2	2276160040	Bracket
			008L	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
rew	B3 x 8	l	009L	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
rew	B3 x 8		012L	1	1	1	2278160010	Bracket
			İ	1				
rew	B3 x 8		013L	5	5	5	51280314B0	B.H. Tapped Screw B3 x 14
rew	B3 x 8		014L	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6
			017L	1	1	1	2278160060	Bracket
			021L	2	2	2	51280318B0	B.H. Tapped Screw B3 x 10
rew	B3 x 8	1	2040	١.	١.		0050400040	, outside
rew	B3 x 8	l	201G	1	1	1	2259109040	Shield
		1	202G	1	1	1	2259109053 2259109062	Shield Shield
			203G	1	'	'	2259109062	Shield
rew	B3 x 8		L001	1			TS18610010	Power Transformer
1000	DO X O		L001	Ι΄	1		TS18610020	Power Transformer
		1	L001	1	'	1	TS18610032	Power Transformer
		1	R001	1	1		RC10225120	Resistor 2.2MΩ ±10% ½W
		1	QN01	1	1	1	HT407182A0	Transistor 2SD718 (R or O)
			QN02	1	1	1	HT407182A0	Transistor 2SD718 (R or O)
rew	B3 x 8		QN03	1	1	1	HT206882A0	Transistor 2SB688 (R or O)
		1	QN04	1	1	1	HT206882A0	Transistor 2SB688 (R or O)
			QN05	1	1	1	HV00008120	Varistor MV-1Y
rew	B3 x 8	l	QN06	1	1	1	HV00008120	Varistor MV-1Y
rew	B3 x 8	1 .						
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6.6 [H01-99] PACKING MATERIALS



	REF.	С	ľΤ	Y	PART NO.	DESCE	IPTION
	DESIG.	U	С	Ν	PART NO.	DESCR	111014
	002S	1			2225813010	Envelope	
	002S		1		2918813012	Envelope	
	002S		'	1	2818813010	Envelope	
	0033 007S		1	1	9630000180	Guarantee Car	·d
	0075		1	,	9650000053	S. Station Car	
	0098	1	'		2818854024	Guarantee Car	
	0105	' ·	1		2818854042	Guarantee Car	_
	015S	1			2276851012	Instructions	u
	0168	Ι΄		1	2276851310	Instructions	(M1530, ONLY)
	0168			1	2468851310	Instructions	(MR230, ONLY)
	0.03			١'	2400031010	111311 40110113	(11111200, 011217
	0178		1		2276851012	Instructions	
	0198	1	1	İ	2277851020	Instructions	
1	0198	Ι΄.	١.	1	2469851030	Instructions	
	0238		1	'	2886851100	Instructions	
	1015	1	'	1	2277801010	Packing Case	
	101S	i .	1	'	2277801150	Packing Case	
	101S		ľ	1	2469801010	Packing Case	(MR230, ONLY)
	102S			2	2276809020	Cushion	(M1530, ONLY)
	102S			2	2276809010	Cushion	(MR230, ONLY)
	1035	2	2	-	2276809020	Cushion	,
-	1038	2	-		2276809010	Cushion	(MR235, ONLY)
1	0198	1			2277851122	Instruction	(MR225, ONLY)
	1018	1			2277801020	Packing Case	(MR235, ONLY)
		'		ĺ			•
	l	ı		1	ŀ	I	

REF.	С	ľΤ,	Y	PART NO.	DESCRIPTION
DESIG.	U	С	N	PARTINO,	DESCRIPTION
105S	1	1	1	9014838380	Polyethy Bag
106S	1	1	1	9013025010	Polyethy Bag
1088	1	1	1	2864804010	Sleeve
1098			1	9560000043	Hang Tag
110S	1		1	2731821010	Silicagel
1118	1	1	1	2918107130	Sheet
114S	3			9526019010	Serial No. Card
114S		3		9526019020	Serial No. Card
115S			3	9526019060	Serial No. Card
1168		2		9510901020	Label
1200				7 4 0 0 0 0 0 0 7 0	EVT Assess
1208	1	1	1	ZA02000070	EXT. Antenna
125S	1	1	1	2819056010	Buffer
ļ					M1530 (U)(C)(N)
	l				MR230 (N), ONLY
					MR230 (U), ONLY
1					
	l				
	ı				

6.7 ELECTRICAL PARTS

DEE	0	T)	/		
REF. DESIG.	υ	С	N	PART NO.	DESCRIPTION
D2070.	U	L	1/4		MATERIO ONLL V
					M1530, ONLY P100-TUNER CIRCUIT BOARD
P100	1	1	1	YG22590012	P.W. Board, Tuner
	1	1		ZZ22590010	P.W. Board Assembly
			1	ZZ22778010	P.W. Board Assembly
					MR230, ONLY P100-TUNER CIRCUIT BOARD
P100			1	YG22590012	P.W. Board, Tuner
1 100			i	ZZ24698010	P.W. Board Assembly
					P100-CAPACITORS
C101	1	1	1	DD11070370	Ceramic 7pF ±0.5pF
C102	1	1	1	DK16102300	Ceramic 0.001µF ±10%
C104	1	1	1	DK17103300	Ceramic 0.01µF ±20% Ceramic 18pF ±5%
C105 C106	1	1	1	DD15180370 DD10030370	Ceramic 18pF ±5% Ceramic 3pF ±0.5pF
C107	Ι'n	1	1	DD10030370	Ceramic 5pF ±0.25pF
C108	Ι'n	li	1	DD15301360	Ceramic 300pF ±5%
C109	1	1	1	DK17103300	Ceramic 0.01µF ±20%
C110	1	1	1	DD15200330	Ceramic 20pF ±5%
C111	1	1	1	DD11100300	Ceramic 10pF ±0.5pF
C112	1	1	1	DD15150300	Ceramic 15pF ±5%
C113	1	1	1	DD15150300	Ceramic 15pF ±5%
C114	1	1	1	DK17103300	Ceramic 0.01µF ±20%
C115	1	1	1	DD10020370	Ceramic 2pF ±0,25pF
C116	1	1	1	DK17103300	Ceramic 0.01µF ±20%
C117 C118	1 1	1	1	DK17103300 DK17103300	Ceramic 0.01µF ±20% Ceramic 0.01µF ±20%
C119	l¦	1	1	CT11000080	Trimming 10pF ±0.5pF
C120	Ι'n	1	1	CA32400090	Variable C752J
C122	1	1	.	DD11100370	Ceramic 10pF ±0.5pF
C151	1	1	1	DF55361090	Film 360pF ±5%
C152	1	1	1	DD10050370	Ceramic 5pF ±0.25pF
C153	1	1	1	EA10701690	Elect 100µF 16V
C154 C155	1	1	1	DK18403320 EA33601690	Ceramic 0.04µF +80% -20% Elect 33µF 16V
C156	1	1	1	DK18223310	Ceramic 0.022µF +80% -20%
C157	i	1	i	DD15820370	Ceramic 82pF ±5%
C201	1	1	1	DK17103300	Ceramic 0.01µF ±20%
C202	1	1	1	DK17103300	Ceramic 0.01µF ±20%
C203	1	1	1	DK17103300	Ceramic 0.01µF ±20%
C204	1	1	1	DK17103300	Ceramic 0.01µF ±20%
C205	1	1	1	DK18403320	Ceramic 0.04µF +80% -20%
C206	1	1	1	DK18403320 DK18403320	Ceramic 0.04µF +80% -20% Ceramic 0.04µF +80% -20%
C207 C208	1	1	1	DK18403320	Ceramic 0.04µF +80% -20% Ceramic 0.01µF ±20%
C209	li	ľ	1	DK17103300	Ceramic 0.01µF ±20%
C210	i	i	1	DD15201360	Ceramic 200pF ±5%
C211	1	1	1	DK17103300	Ceramic 0.01µF ±20%
C212	1	1	1	DK18403320	Ceramic 0.04µF +80% -20%
C213	1	1	1	DK17103300	Ceramic 0.01µF ±20%
C214	1	1	1	DK17103300	Ceramic 0.01µF ±20%
C215	1	1	1	EA33502590	Elect 3.3µF 25V
C216	1	1	1	DK18223310	Ceramic 0.022µF +80% -20%
C217 C218	1	1	1	EA47503590 EA22701690	Elect 4.7μF 35V Elect 220μF 16V
C219	1	ľ	1	DK17103300	Ceramic 0.01µF ±20%
C220	i	ľ	i	DK18104020	Ceramic 0.01µF ±20%

	REE Q'TY								
REF. DESIG.	-			PART NO.	DESC	RIPTION			
DESIG.	U	С	N						
•									
R216	1	1	1	GD05202140	2ΚΩ				
R217	1	1	1	GD05563140	56KΩ				
R218	1	1	1	GD05333140	33KΩ				
R219	1	1	1	GD05224140	220KΩ				
R220 R221	1	1	1	GD05470140	47Ω 47Ω				
R221 R222	1	1	1	GD05470140 GD05221140	47Ω 220Ω				
R222		1	1	GD05221140 GD05391140	390Ω				
R224	1	1	1	GD05591140	5.6KΩ				
R225	1	1	i	GD05332140	3.3ΚΩ				
R226	1	1	1	GD05823140	82KΩ				
R227	1	1	1	GD05333140	33KΩ	2014.0			
R228	1	1	1	RA02030060	Trimming	20ΚΩ			
R229 R230	1	1	1	GD05472140 GD05822140	4.7KΩ 8.2KΩ				
R231	1	1	1	GD05822140 GD05391140	390Ω				
R232	1	1	1	RA03020030	Trimming	3KΩ (B)			
R233	1	1	1	RA05020160	Trimming	5ΚΩ			
R235	1	1	1	GD05473140	47KΩ				
R236	1	1	1	GD05151140	150Ω				
R237	1	1	1	GD05561140	560Ω				
R238		i	1	GD05563140	56KΩ				
R239	i	1	1	GD05104140	100ΚΩ				
R240	1	1	1	GD05104140	100ΚΩ				
R241	1	1	1	GD05152140	1.5ΚΩ				
R242	1	1	1	GD05473140	47ΚΩ				
R243	1	1	1	GD05104140	100ΚΩ				
R244	1	1	1	GD05153140	15KΩ				
R245	1	1	1	GD05153140	15KΩ				
R246	1	1	1	GD05104140	100ΚΩ				
R248	1	1	1	GD05222140	2.2ΚΩ				
R250	i	i	1	GD05123140	12ΚΩ				
R251	1	1	1	GD05244140	240 K Ω				
R252	1	1	1	GD05104140	100KΩ				
R255	1	1	1	GD05100140	10Ω				
R256	1	1	1	GD05153140	15KΩ				
R257 R258	1	1	1	GD05103140 GD05271140	10KΩ 270Ω				
R301	1	1	1	GD05271140 GD05472140	2/0Ω 2.7KΩ				
R302	1	1	1	GD05472140	2.7KΩ				
Bana									
R303 R304	1	1	1	GD05472140 GD05472140	2.7KΩ 2.7KΩ				
R305	1	1	'	GD05472140 GD05303140	30KΩ				
R305	'		1	GD05303140 GD05183140	18KΩ				
R306	1	1		GD05303140	30KΩ				
R306			1	GD05183140	18ΚΩ				
R307	1	1	1	GD05105140	1MΩ				
R308	1	1	1	GD05105140	$1M\Omega$				
R309	1	1		GD05204140	200ΚΩ				
R309			1	GD05154140	150ΚΩ				
R310	1	1		GD05204140	200KΩ				
R310 R311			1	GD05154140	150KΩ				
R312	1	1	1	GD05472140 GD05472140	4.7KΩ 4.7KΩ				
R313	1	1	'	GD05472140 GD05301140	300Ω				
R313		'	1	GD05301140	240Ω				
R314	1	1	`	GD05241140	300Ω				
R314		Ė	1	GD05241140	240Ω				
R315	1	1	1	GD05102140	1ΚΩ				
R316	1	1	1	RA01030260	Trimming	10ΚΩ			
ļ									

REF.	()'T'	Y			• (N): for Europe
DESIG.	U	_	N	PART NO.	DESCR	RIPTION
R317	1	1	1	GD05473140	47ΚΩ	
R318	1	1	1	GD05473140	47ΚΩ	
R319	1	1	1	GD05101140	100Ω	
R320	1	1	1	GD05101140	100Ω	
R321	1	1	1	GD05101140	100Ω	
R325 R326	1	1	1	GD05562140 RA04720050	5.6KΩ Trimming	4.7KΩ (B)
R327	1	li	1	GD05103140	10ΚΩ	7.7132 (0)
R328	1	1	1	GD05102140	1ΚΩ	
R329	1	1	1	GD05102140	1ΚΩ	
R330	1	1	1	GD05103140	10ΚΩ	
R331	i	Ι'n	1	GD05103140	100Ω	
R332	1	li	1	GD05103140	10ΚΩ	
R333	1	1	1	GD05104140	100ΚΩ	
R334	1	1	1	GD05104140	100ΚΩ	
					P100-SEMICO	NDUCTORS
Q101	1	1	1	HF400451B0	F.E.T.	3SK45 (B)
Q102	1	1	1	HT305352B0	Transistor	2SC535 (B or C)
Q103	1	1	1	HT308291C0	Transistor	2SC829 (C)
Q151	1	1	1	HD20001210	Diode	1S2473C
Q152	1	1	1	HD20001210	Diode	1S2473C
Q201	1	1	1	HT308291C0	Transistor	2SC829 (C)
Q202	1	1	1	HT308291C0	Transistor	2SC829 (C)
Q203	1	1	1	HT308291C0 HD10003020	Transistor Diode	2SC829 (C) 2OA90M
Q204 Q205	1		1	HD10003020	Diode	20A90M
4205	'	l		11010003020	Diode	20/30101
Q206	1	1	1	HC10009020	IC	AN7000
Q207	1	1	1	HT308291C0	Transistor	2SC829 (C)
Q208	1	1	1	HD10003020	Diode	20A90M
Q209	1	1	1	HD20001210	Diode	1S2473C
Q210	1	1	1	HT308281D0	Transistor	2SC828 (S)
Q211 Q212	1	1	1	HT308281D0 HT107222A0	Transistor Transistor	2SC828 (S) 2SA722 (S or T)
Q214		1	1	HD10003020	Diode	20A90M
Q301	1	1	i	HT308281D0	Transistor	2SC828 (S)
Q302	1	1	1	HT308281D0	Transistor	2SC828 (S)
0210	4	4	1	UD10003030	Diede	20,40014
Q310 Q311	1	1	1	HD10003020 HT107222A0	Diode Transistor	20A90M 2SA722 (S or T)
	ľ				,	
				==1001=100	P100-MISCEL	
F151	1	1	1	FF10045180	Ceramic Filter	
F201 F202	1	1	1	FF11070050 FF11070050		FM SFE10,7MD1 FM SFE10,7MD1
F203	1	1	1	FF11070050		FM SFE10.7MD1
L101	1	1	1	LA12028040	Ant. Coil	FM
L102	1	1	1	LA12028050	Ant. Coil	FM
L103	1	1	1	LO12036010	OSC Coil	FM
L104 L105	1	1	1	LI10016010 LC13320020	I.F.T. Choke Coil	FM 3.3μH
L105	1	1	1	LC13320020	Choke Coil	3.3μH 0.75μH
L151	i	1	1	LC13320020	Choke Coil	3.3µH
L152	1	1	1	LC13320020	Choke Coil	3,3µH
L153	1	1	1	LO10013150	OSC Coil	AM
L154	1	1	1	LI10013200	I.F.T.	AM

	OTY								
REF.	C	QTY		PART NO.	DESCRIPTION				
DESIG.	U	С	Ν	TAILT II.					
1 201	۱, ا	4		1114016240	I.F.T. FM Det				
L201	1 1	1	1	L114016240					
L202	1	1	1	LC11830020	Choke Coil 18µH				
L203	1	1	1	LC23960020	Choke Coil 39mH				
L204	1	1	1	LC12250030	Choke Coil 2200µH				
L205	1	1	1	LC11030020	Choke Coil 10µH				
L301	1	1	1	LS20013010	M.P.X. Coil				
L302	1	1	1	LS20013010	M.P.X. Coil				
					DAGO BUONO OIDOUT DOADD				
D400				1/000700040	P400-PHONO CIRCUIT BOARD				
P400	1	1	1	YG22780010	P.W. Board, Phono				
				7700700040	(M1530, ONLY)				
	1	1	1	ZZ22780010	P.W. Board Assembly				
					(MR230, ONLY)				
			1	ZZ24696010	P.W. Board Assembly				
					DAGG GARAGITORS				
01/04				DV47400000	P400-CAPACITORS				
CV01	1	1	1	DK17103300	Ceramic 0.01µF ±20%				
CV02	1	1	1	DK17103300	Ceramic 0.01µF ±20% Elect 3.3µF 25V				
C401	1	1	1	EE33502550					
C402	1	1	1	EE33502550	Elect 3.3µF 25V				
C403	1	1	1	DD15470360	Ceramic 47pF ±5%				
C404	1	1	1	DD15470360	Ceramic 47pF ±5%				
C405	1	1	1	EA10701090	Elect 100μF 10V				
C406	1	1	1	EA10701090	Elect 100µF 10V				
C407	1	1	1	DK16221300	Ceramic 220pF ±10%				
C408	1	1	1	DK16221300	Ceramic 220pF ±10%				
C409	1	1	1	DF15123300	Film 0.012µF ±5%				
C410	1	1	1	DF15123300	Film 0.012µF ±5%				
C411	1	1	1	DF15332300	Film 3300pF ±5%				
C412	1	1	1	DF15332300	Film 3300pF ±5%				
C413	1	1	1	EA10505090	Elect 1µF 50V				
C414	1	1	1	EA10703590	Elect 100µF 35V				
C415	1	1	1	EA10505090	Elect 1µF 50V				
C416	1	1	1	EA10505090	Elect 1µF 50V				
C417	1	1	lί	DD15220360	Ceramic 22pF ±5%				
C418	li	l i	li	DD15220360	Ceramic 22pF ±5%				
C419	1	i	li	DK16332300	Ceramic 0.0033 µF ±10%				
C420	1	1	li	DK16332300	Ceramic 0.0033 µF ±10%				
0420	١.	Ι'	Ι.	DK 10002000					
CM01	1	1	1	EA10703590	Elect 100µF 35V				
CM02	li	i	i	EA10701090	Elect 100µF 10V				
CM03	li	i	Ιi	EA33605090	Elect 3,3µF 50V				
CM04	ľ	1	١i	DK17103300	Ceramic 0.01µF ±20%				
Civio4	١'	١,	Ι'	DK17103300	Coratilic 0.0121 = 2070				
					P400-RESISTORS				
					(All Resistors are ±5% and ¼W)				
RV01	1	1	1	GA05561010	560Ω 1W				
RV02	1	li	1	GD05152140	1.5ΚΩ				
RV02		1	1	GD05152140	2.7ΚΩ				
	1				***				
R401	1	1	1	GD05623140	62ΚΩ				
R402	1	1	1	GD05623140	62ΚΩ				
R403	1	1	1	GD05182140	1.8ΚΩ				
R404	1	1	1	GD05182140	1.8ΚΩ				
R405	1	1	1	GD05184140	180ΚΩ				
R406	1	1	1	GD05184140	180ΚΩ				
R407	1	1	1	GD05471140	470Ω				
			١.						
R408	1	1	1	GD05471140	470Ω				
R409	1	1	1	GD05274140	270ΚΩ				
R410	1	1	1	GD05274140	270ΚΩ				
R411	1	1	1	GD05274140	270ΚΩ				
R412	1	1	1	GD05274140	270ΚΩ				
R413	1	1	1	GD05223140	22ΚΩ				
R414	1	1	1	GD05223140	22ΚΩ				
R415	1	1	1	GD05681140	680Ω				
R416	1	1	1	GD05681140	680Ω				
R417	1	1	1	GD05223140	22ΚΩ				
		L.	_						

REF.	C	T'L	Υ		
DESIG	U	_	N	PART NO.	DESCRIPTION
<u> </u>	-	-			
R418	1	1	1	GD05223140	22ΚΩ
R419	1	1	1	GD05224140	220ΚΩ
R420	1	1	1	GD05224140	220ΚΩ
R421	1	1	1	GD05151140	150Ω
R422	1	1	1	GD05151140	150Ω
R423	1	1	1	GD05184140	180ΚΩ
R424	1	1	1	GG05181140	180Ω
RM01	1	1	1	GD05333140	33ΚΩ
RM02	1	1	1	GD05103140	10ΚΩ
RM03	1	1	1	GD05474140	470ΚΩ
RM04	1	1	1	GD05100140	10Ω
RM05	1	1	1	GD05273140	27ΚΩ
RM06	1	1	1	GD05272140	2.7ΚΩ
RM07	1	1	1	GD05153140	15ΚΩ
					P400-SEMICONDUCTORS
Q401	1	1	1	HC10012060	IC μPC1024H
Q402	1	1	1	HC10012060	IC μPC1024H
QM01	1	1	1	HD20011050	Diode 1S1555
QM02	1	1	1	HT309452A0	Transistor 2SC945 (Q or R)
QM03	1	1	1	HT309452A0	Transistor 2SC945 (Q or R)
QM04	1	1	1	HT309452A0	Transistor 2SC945 (Q or R)
					P400-MISCELLANEOUS
JV01	1	1	1	YT02040260	Terminal, Phono Aux
JV02	1	1	1	YT02040260	Terminal, Tape 1
SV01	1	1	1	SR10060180	Rotary Switch
					P700-MAIN AMP./POWER
1					SUPPLY CIRCUIT BOARD
P700	1	1	1	YG22770010	P.W. Board, Main Amp/Power
1					Supply
1	1	1		ZZ22770010	P.W. Board Assembly
					M1530, ONLY
1			1	ZZ22778110	P.W. Board Assembly
1					MR230, ONLY
1			1	ZZ24695010	P.W. Board Assembly
					P700-CAPACITORS
C701	1	1	1	DD15201360	Ceramic 200pF ±5%
C702	1	1	1	DD15201360	Ceramic 200pF ±5%
C703	1	1	1	EE22502550	Elect 2.2µF 25V
C704	1	1	1	EE22502550	Elect 2.2µF 25V
C705	1	1	1	EE47600650	Elect 47μF 6.3V
C706	1	1	1	EE47600650	Elect 47μF 6.3V
C711	1	1	1	DD10050360	Ceramic 5pF ±0.25pF
C712	1	1	1	DD10050360	Ceramic 5pF ±0,25pF
C713	1	1	1	DF17104300	Film 0.1µF ±20%
C714	1	1	1	DF17104300	Film 0.1µF ±20%
C719	1	1	1	DK16102300	Ceramic 0.001µF ±10%
C720	1	1	1	DK16102300	Ceramic 0.001µF ±10%
C723	1	1	1	DF17104570	Film 0.1μF ±20%
C724	1	1	1	DF17104570	Film 0.1μF ±20%
C729	1	1	1	EA10705090	Elect 100µF 50V
C730	1	1	1	EA10705090	Elect 100µF 50V
C731	1	1	1	DD15500500	Ceramic 50pF ±5% 200V
C732	1	1	1	DD15500500	Ceramic 50pF ±5% 200V
C733	1	1	1	DD15500500	Ceramic 50pF ±5% 200V
C734	1	1	1	DD15500500	Ceramic 50pF ±5% 200V
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REF.	0	QTY				PART		PART NO.	DESCRIPTION			
DESIG.	U	С	N	PART NO.	DE	SCRIPTI	UN					
		_										
C735	1	1	1	DK17103300	Ceramic	0.01μF	±20%					
C801	1	1	1	EB10904210		0000μF	42V					
C802	1	1	1	EB10904210		0000μF	42V					
C803 C804	1	1	1	DK18103510 DK18103510	Ceramic Ceramic	0.01μF 0.01μF	+80% <i>-</i> -0 +80% <i>-</i> -0					
C805	Ι'n	1	1	EA47706310	Elect	470µF	63V					
C806	1	1	1	EA22705090	Elect	220µF	50V					
C807	1	1	1	DK17103300	Ceramic	0.01µF	±20%					
C808	1	1	1	DK17103300	Ceramic	$0.01\mu F$	±20%					
C809	1	1	1	EA10603590	Elect	10μF	35V					
C810	1	1	1	EA10703590	Elect	100μF	50∨					
C811	1	1	1	EA47701690	Elect	470µF	16V					
C816	1	1	1	DK17103300	Ceramic	0.01μF	±20%					
C818 C819	1	1	1	EQ10601610 DK18103510	Elect	10μF	16V					
C820	1	i	1	DK18103510	Ceramic Ceramic	0,01µF 0,01µF	+80%0 +80%0					
					P700-RES		5% and ¼W)					
R701	1	1	1	GD05102140	1ΚΩ		,,,					
R702	1	1	1	GD05102140	1ΚΩ	1						
R703	1	1	1	GD05104140	100KΩ							
R704	1	1	1	GD05104140	100KΩ							
R705 R706	1	1	1	GD05681140 GD05681140	680Ω							
R707	1			GD05914140	680Ω 910KΩ							
R708	;	ľ	i	GD05914140	910KΩ							
R709	1	1	1	GD05105140	1ΜΩ							
R710	1	1	1	GD05105140	1MΩ	2						
R711	1	1	1	GD05222140	2,2ΚΩ	:						
R712	1	1	1	GD05222140	2,2ΚΩ	1						
R713	1	1	1	GD05222140	2,2ΚΩ							
R714	1	1	1	GD05222140	2.2ΚΩ		. (0)					
R717 R718	1	1	1	RA01020160 RA01020160	Trimming Trimming		2 (B) 2 (B)					
R721	li	i	1	GD05104140	100ΚΩ		£ \D/					
R722	1	1	1	GD05104140	100ΚΩ							
R723	1	1	1	GD05103140	10KΩ							
R724	1	1	1	GD05103140	10KΩ	;						
R725	1	1	1	GD05912140	9.1ΚΩ	1						
R726	1	1	1	GD05912140	9.1ΚΩ							
R727	1	1	1	GD05154140	150ΚΩ							
R728 R729	1	1	1	GD05154140 GD05154140	150KΩ 150KΩ							
R730	;	1	1	GD05154140	150KΩ							
R733	1	1	1	GG05102140	1ΚΩ							
R734	1	1	1	GG05102140	1ΚΩ							
R735	1	1	1	GG05102140	1ΚΩ							
R736	1	1	1	GG05102140	1ΚΩ	,						
R741	1	1	1	GN10472030	0.47Ω	3W						
R742	1	1	1	GN10472030	0,47Ω							
R743	1	1	1	GN10472030	0.47Ω							
R744 R745	1	1	1	GN10472030	0,47Ω							
R745	1 1	1	1	GA05100020 GA05100020	10Ω 10Ω							
R747	1	1	1	RC10022120	2.2Ω		% ½W					
R748	i	1	1	RC10022120	2.2Ω							
R749	1	1	1	GA05331020	330Ω							
R750	1	1	1	GA05331020	330Ω	2W	j					
				1			- 1					

REF.		Ω'Τ	Y			(N): for Europe
DESIG.	U	С	N	PART NO.	DESC	RIPTION
R751	1	1	1	GG05151120	150Ω	1/2W
R752	1	1	1	GG05151120	150Ω	1/2W
R753	1	1	1	GG05101140	100Ω	
R754	1	1	1	GG05101140	100Ω	
R755	1	1	1	GD05683140	68KΩ	
R756	1	1	1	GD05683140	68KΩ	
R757	1	1	1	GD05752140	7.5KΩ	
R758	1	1	1	GD05752140	7,5KΩ	
R759 R760	1	1	1	GD05102140 GD05102140	1KΩ 1KΩ	
11700	Ι'	'	Ι'	3003102140	11/22	
R761	1.	1	1	GG05330140	33Ω	
R762	1	1	1	GG05330140	33Ω	
R763	1	1	1	GG05330140	33Ω	
R764	1	1	1	GG05330140	33Ω	
R765	1	1	1	GD05122140	1.2KΩ	
R766	1	1	1	GD05122140	1.2KΩ	
R801	1	1	1	GP05151030	150Ω	3W
R802 R803	1	1	1	GG05152140 GG05102140	1,5KΩ 1KΩ	
R804	li	l¦	ľi	GD05102140	10KΩ	
R805	li	Ιi	i	GD05682140	6.8KΩ	
R806	1	i	1	GD05242140	2.4ΚΩ	
	١.					ONDUCTORS
Q701	1	1	1	HC10003360	IC	LM391-80
Q702	1	1	1	HC10003360	IC	LM391-80
Q703 Q704	1	1	1	HT404152B0 HT404152B0	Transistor Transistor	2SD415 (Q or R) 2SD415 (Q or R)
Q705	li			HT205492B0	Transistor	2SB549 (Q or R)
Q706	i	1	1	HT205492B0	Transistor	2SB549 (Q or R)
Q711	i	i	i	HD20005010	Diode	W06B
Q712	1	1	1	HD20005010	Diode	W06B
Q713	1	1	1	HD20005010	Diode	W06B
Q714	1	1	1	HD20005010	Diode	W06B
Q719	1	1	1	HD20003210	Diode	1S2471
Q720	1	1	1	HD20003210	Diode	1\$2471
Q721	1	1	1	HD20003210 HD20003210	Diode	1S2471
Q722	1	1	1	HD20003210	Diode	1S2471
Q801	1	1	1	HE10001030	Diode	DS133B
Q802	1	1	1	HE10001030	Diode	DS133B
Q804	1	1	1	HD20022100	Diode	10E1
Q805	1	1	1	HT403131Q0	Transistor	2SD313E
Q806	1	1	1	HT309452A0	Transistor	2SC945 (Q or R)
Q807	1	1	1	HD30022090	Zener	BZ-1201W
Q808	1	1	1	HD20010290	Diode	S3V-20
Q809	1	1	1	HD20010290	Diode	\$3V-20
Q810 Q811	1	1	1	HD20010290 HD20010290	Diode Diode	\$3V-20 \$3V-20
2011	'	,	'	HD20010290	Diode	33 V-20
					P700-MISCEL	LANEOUS
J731	1	1	1	YJ06001870	Jack	
J732	1	1	1	YJ06001870	Jack	
J733	1	1	1	YJ06001870	Jack	
J734	1	1	1	YJ06001870	Jack	
. 704				1.1.0004.77.77	01-1-6-11	
L701	1	1	1	LL23915120	Choke Coil	
L702	1	1	1	LL23915120	Choke Coil	
F701	1	1		FS10400050	Fuse 4A	250V
F701			1	FS10400030	Fuse 4AT	
F702	1	1		FS10400050	Fuse 4A	250V
F702			1	FS10400800	Fuse 4AT	
				İ		

• (U): for U.S.A. • (C): for Canada

REF.	Q'T		Y	DARTNO	DESCRIPTION
DESIG.	U	С	N	PART NO.	DESCRIPTION
J701	4	4		YJ08000170	Jack, Fuse Holder
√ J704			4	YJ08000270	Jack, Fuse Holder
PC00	1 1 1	1 1 1	1 1	YH22760210 ZZ22760210 YT01040182	PC00-ANTENNA CIRCUIT BOARD P.W. Board, Antenna P.W. Board Assembly Terminal
				1101040102	Communication
LC01	1	1	1	LB30075260	Balun Coil
PE00	1 1	1	1	YK22780210 ZZ22780210	PE00-TONE AMP. CIRCUIT BOARD P.W. Board, Tone Amp. P.W. Board Assembly
CE01 CE02 CE03 CE04 CE05 CE06 CE09 CE10 CE11 CE12	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	EE22405050 EE22405050 DD15151370 DD15151370 EE47502550 EE47502550 DD15101370 DD15101370 DF16222300 DF16222300	$\begin{array}{llllllllllllllllllllllllllllllllllll$
CE13 CE14 CE15 CE16 CE17 CE18 CE19 CE20 CE21	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	DF16472300 DF16472300 DF16223300 DF16223300 DF16223300 DF16223300 DF16822300 DF16822300 EE10505050 EE10505050	Film 4700pF $\pm 10\%$ Film 4700pF $\pm 10\%$ Film 0.022 μ F $\pm 10\%$ Film 0.022 μ F $\pm 10\%$ Film 0.022 μ F $\pm 10\%$ Film 0.022 μ F $\pm 10\%$ Film 8200pF $\pm 10\%$ Film 8200pF $\pm 10\%$ Elect 1 μ F 50V Elect 1 μ F 50V
CE23 CE24 CE25 CE26 CE27 CE28 CE31	1 1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	DD11100370 DD11100370 EE33505050 EE33505050 EE10505050 EE10505050 EA22703590	
RE03 RE04 RE05 RE06 RE07 RE08 RE09 RE10 RE11 RE12	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	11111111	RK02040072 RM01040200 GD05474140 GD05474140 GD05102140 GD05105140 GD05105140 GD05103140 GD05104140	PE00-RESISTORS (All Resistors are $\pm 5\%$ and $\%$ W) Variable 200KΩ (B) Variable 100KΩ (B) 470KΩ 1KΩ 1KΩ 1MΩ 10KΩ 100KΩ

• (N): for Euro								
REF. DESIG.	U	T'C	Y	PART NO.	DESCRIPTION			
RE13	1	1	1	GD05102140	1ΚΩ			
RE14	1	1	1	GD05102140	1ΚΩ			
RE15	1	1	1	GD05183140	18ΚΩ			
RE16	1	1	1	GD05183140	18ΚΩ			
RE17	1	1	1	GD05822140	8.2ΚΩ			
RE18 RE19	1	1	1	GD05822140 GD05474140	8.2ΚΩ			
RE20	l'i	1	l i	GD05474140	470ΚΩ 470ΚΩ			
RE21	1	i	li	75061001P0	Jumper			
RE22	1	1	1	75061001P0	Jumper			
RE23	1	1	1	GD05682140	6.8ΚΩ			
RE24	1	1	1	GD05682140	6.8ΚΩ			
RE25	1	1	1	GD05113140	11ΚΩ			
RE26	1	1	1	GD05113140	11ΚΩ			
RE27	1	1	1	GD05562140	5.6ΚΩ			
RE28 RE29	1	1	1	GD05562140 GD05752140	5.6ΚΩ			
RE30	li.	1	1	GD05752140	7,5ΚΩ 7,5ΚΩ			
RE31	1	l i	i	GD05732140	27ΚΩ			
RE32	1	1	1	GD05273140	27ΚΩ			
RE33	1	1	1	GD05123140	12ΚΩ			
RE34	1	1	1	GD05123140	12ΚΩ			
RE35	1	1	1	GD05153140	15ΚΩ			
RE36	1	1	1	GD05153140	15ΚΩ			
RE37	1	1	1	GD05274140	270ΚΩ			
RE38	1	1	1	GD05274140	270ΚΩ			
RE39 RE40	1	1	1	GD05273140 GD05273140	27ΚΩ			
RE41	1		li	GD05273140 GD05683140	27ΚΩ 68ΚΩ			
RE42	1	i	i	GD05683140	68KΩ			
RE43	1	1	1	GD05225140	2.2ΜΩ			
RE44	1	1	1	GD05225140	2,2ΜΩ			
RE45	1	1	1	GD05181140	180Ω			
RE46	1	1	1	GD05181140	180Ω			
RE47	1	1	1	GD05123140	12ΚΩ			
RE48	1	1	1	GD05123140	12ΚΩ			
RE49 RE50	1	1	1	GD05103140 GD05103140	10ΚΩ			
RE51	l i	li	i	GD05103140	10ΚΩ 47ΚΩ			
RE52	1	1	1	GD05473140	47ΚΩ			
RE53	1	1	1	RM01040210	Variable 100KΩ (B)			
RE54	ľ	i	1	RM01040210	Variable $100K\Omega$ (B)			
RE55	1	1	1	RM01040210	Variable 100KΩ (B)			
RE56	1	1	1	GG05221140	220Ω			
RE57	1	1	1	GD05274140	270ΚΩ			
RE58	1	1	1	GD05274140	270ΚΩ			
					PE00-SEMICONDUCTORS			
QE01	1	1	1	HT316812A0	Transistor 2SC1681 (GR, BL)			
QE02 QE03	1	1	1	HT316812A0	Transistor 2SC1681 (GR, BL)			
QE04	1		1	HT108412A0 HT108412A0	Transistor 2SA841 (GR, BL) Transistor 2SA841 (GR, BL)			
QE05	ľ	1	i	HT316812A0	Transistor 2SA841 (GR, BL) Transistor 2SC1681 (GR, BL)			
QE06	1	i	1	HT316812A0	Transistor 2SC1681 (GR, BL)			
QE07	1	1	1	HT108412A0	Transistor 2SA841 (GR, BL)			
QE08	1	1	1	HT108412A0	Transistor 2SA841 (GR, BL)			
1504				V/1100*****	PE00-MISCELLANEOUS			
JE04	1	1	1	YU05130010	Jumper Lead (5P)			

 (U): for U.S.A.
(C): for Canada
(N): for Europe

REF.	(ΣΤ	Y	PART NO.	DESCRIPTION
DESIG.	U	С	N	PART NO.	DESCRIPTION
PN01	1	1	1	YH22771210 ZZ22771210	PN01-POWER TRANSISTOR CIRCUIT BOARD P.W. Board, Power Transistor P.W. Board Assembly
RN01 RN02 RN03 RN04 RN05 RN06 RN07	1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1	GG05101140 GG05101140 GG05101140 GG05101140 75061001P0 75061001P0 GG05330140	PN01-RESISTORS (All Resistors are $\pm 5\%$ and $\%$ W) 100Ω 100Ω 100Ω 100Ω Jumper Jumper 33Ω
QN01 QN02 QN03 QN04 QN05 QN06	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1	HT407182A0 HT407182A0 HT206882A0 HT206882A0 HV00008120 HV00008120	33Ω PN01-SEMICONDUCTORS Transistor 2SD718 (R or Q) Transistor 2SD688 (R or Q) Transistor 2SB688 (R or Q) Transistor 2SB688 (R or Q) Varistor MV-1Y Varistor MV-1Y
JN01	4	4	4	YP06001600	PN01-PLUG Plug
PPO1		1		YF22770020 ZZ22771020	PP01-FUSE CIRCUIT BOARD P.W. Board, Fuse P.W. Board Assembly
PPO1		ALTO TO	1 1	YF22770010 ZZ22778210	M1530, ONLY P.W. Board, Fuse P.W. Board Assembly
PPO1			1	YF22760032 ZZ22760030	MR230, ONLY P.W. Board, Fuse P.W. Board Assembly
FP01 FP02 FP03 FP04		1 1 1 1		F\$10150900 F\$10100900 F\$10600900 F\$10600900	PP01-FUSE Fuse 1.5A 125V Fuse 1A 125V Fuse 6A 125V Fuse 6A 125V
FP01 FP02 FP03 FP04			1 1 1 1	FS10160800 FS10100800 FS10250800 FS10250800	Fuse 1.6AT 250V Fuse 1AT 250V Fuse 2.5AT 250V Fuse 2.5AT 250V
JP01		1	1	YJ08000200 YP06001560	PP01-JACK Jack, Fuse Holder Plug

BEE	1	2'T	v		
REF. DESIG.	-	С	N	PART NO.	DESCRIPTION
PS00	1 1	1	1	YK22760410 ZZ22770410 ZZ22778410	PS00-SWITCH CIRCUIT BOARD P.W. Board, Switch P.W. Board Assembly P.W. Board Assembly
CS01 CS02 CS03 CS04 CS05 CS06 CS07 CS08 CS09 CS10	1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1 1	DD15561370 DD15561370 DF17683300 DF17683300 DF15222300 DF15222300 DF15222300 DF17104300 DF17104300 EE33405040 EE33405040	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
CS11 CS12	1	1		DF15472300 DF15472300	Film 0,0047µF ±5% Film 0,0047µF ±5%
RS01 RS02 RS03 RS04 RS05 RS06 RS07 RS08 RS11 RS12 RS13 RS14 RS15 RS16 RS17	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1	1	GD05332140 GD05332140 GD05563140 GD05563140 GD05622140 GD05622140 GD05103140 GD05103140 GD05432140 GD05432140 GD05393140 GD05393140 GD05332140 GD05332140 GD05332140	PS00-RESISTORS (All Resistors are ±5% and %W) 3.3KΩ 3.3KΩ 56KΩ 56ΚΩ 6.2KΩ 6.2KΩ 10ΚΩ 10ΚΩ 4.3KΩ 4.3KΩ 4.3KΩ 39ΚΩ 39ΚΩ 39ΚΩ 220Ω 3.3KΩ 3.3KΩ 7.3 SWITCH Push Switch
PY01	1 1	1 1	1	YH22771220 ZZ22771220	PY01-LED CIRCUIT BOARD P.W. Board, LED P.W. Board Assembly
QY01	1	1	1	H110009020	L.E.D. LN26RP Stereo Ind.
					M1530 (U)(C)(N) MR230 (N), ONLY

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

7. TECHNICAL SPECIFICATIONS

[U.S.A. & CANADIAN MODELS ONLY]

AMPLIFIER SECTION:
Minimum Continuous Watts per Channel, both Channels Driven
into 8 ohms
into 4 ohms
Power Band
at 8 ohms
at 4 ohms
Total Harmonic Distortion
at 8 ohms
at 4 ohms
I.M. Distortion
(I.H.F. method, 20 Hz and 7 kHz mixed 4:1 at rated power output)
at 8 ohms
Damping Factor at 20 Hz
PREAMPLIFIER SECTION:
Phono
Input Overload at 1 kHz
Equivalent Input Noise, "A" weighted
Input Sensitivity (Input Impedance, 47 kohms)
Frequency Response (RIAA, 20 Hz to 20 kHz)
High Level Inputs (Aux and Tape) Input Sensitivity
Input Impedance
AM/FM TUNER SECTION:
Sensitivity
IHF Usable (Mono)
IHF 50 dB Quieting
Mono
Stereo
Distortion, Mono and (Stereo) at 65 dBf
1000 Hz
Hum and Noise at 65 dBf (1000 μ V)
Mono
Capture Ratio at 65 dBf (1000 μ V)
Alternate Channel Selectivity
Spurious Response Rejection
Image Response Rejection
IF Rejection (Balanced)
AM Suppression
Stereo Separation 1000 Hz
AM Usable Sensitivity (IHF)
AM Distortion (THD) at 30% Modulation
AM Signal-to-Noise Ratio
GENERAL:
Power Requirements
Power Consumption at rated output, both channels operating
Idling Power (Volume Control at zero)
•
Dimensions 17.1/4// IAAO man)
Panel Width
Panel Height
Depth
Weight 10 km (32 kg)
Unit alone

(FOR EUROPEAN MODEL ONLY)

AUDIO SECTION:

POWER OUTPUT, DIN, 4 OHM, PER CHANNEL	
POWER BANDWIDTH	2
DAMPING FACTOR 8 OHM	
Frequency Response ±1.0 dB Phono (RIAA) ±1.0 dB Aux (±1 dB) 18 Hz ~ 30 kHz Signal-to-Noise Ratio 72 dB Phono 72 dB Aux 80 dB Input Terminals 47 kohms Input Sensitivity 2.8 mV	3
Overload Margin	3
Aux 2.0 dB Interchannel Crosstalk Phono 1 kHz 35 dB Aux 1 kHz 43 dB Tape 1 kHz 55 dB	3
Intersource Crosstalk (Worst Point) 51 dB 1 kHz 51 dB Output Voltage, 1 kHz 500 mV	
Output Impedance, 1 kHz Tape Out	6
FM TUNER SECTION:	
Frequency Range 87.4 ~ 109 MHz Usable Sensitivity 40 kHz Deviation, 98 MHz 1.7 μNg Mono, S/N 26 dB 1.7 μNg Stereo, S/N 46 dB 48 μNg Alternate Channel Selectivity, 98 MHz ±300 kHz 36 dB Image Response Rejection, 98 MHz 50 dB IF Rejection, 98 MHz 100 dB Spurious Response Rejection, 98 MHz 110 dB AM Suppression, 98 MHz 52 dB	3333

-	Ratio, 98 MHz
Unweighted	: Mono
	Stereo 55 dB
Weighted:	Mono
	Stereo
	Subcarrier Rejection
	58 dE
	c Distortion, 98 MHz
	0.1%
	0.2%
Frequency Res	
	kHz +0.5 dB, –2.0 dB
Separation	45 dE
	ce
	e, 1 kHz
	e, γ κHz
	ad Impedance, 1 kHz
Antenna Termi	
Officalariced	700000
AM TUNER S	ECTION:
Frequency Ran	nge
	rity (26 dB S/N 30% Mod., 1 MHz)
Selectivity, 1 N	лHz ±9 kHz
Image Rejectio	n, 1 MHz
IF Rejection, 1	MHz
Spurious Respo	onse Rejection, 1 MHz
	Ratio, 1 MHz
	sponse, 1 MHz ± 3 dB \ldots 40 Hz \sim 2.2 kHz
Total Harmoni	c Distortion, 1 MHz
GENERAL:	
Power Poquire	ments
rower nequire	(N version is featuring an external voltage selector for use on 110/120/240 V
	Other versions can be converted by a qualified technician to operate on 110/120/240 V.
Power Consum	option at Rated Output, Both Channels Operating
Semiconductor	
	Circuits
	3
	Transistor
Dimensions	
Panel Heigh	t
Weight	
	shipment
. 25.00 101 3	mp

